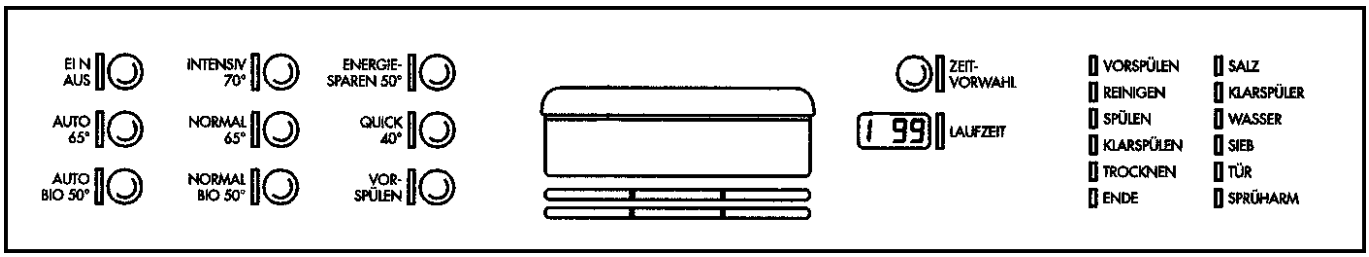
Electrolux

Technical Support Europe

SERVICE MANUAL

DISHWASHER



Dishwasher

Fully electronic dishwasher
FAVORIT 8081

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Technical Data

This dishwasher has basicly the same construction as the range 1995, like shown on the pages 292 1372 01 - 21. But it has a bigger electronic with automatic programes.

In the automatic programes the pollution (mist) of the rinse water is measured during the pre-rinse and the intermediate rinse. If no pollution is recognized the water of the pre-rinse is used during the mainwash. A second intermediate rinse will not be executed.

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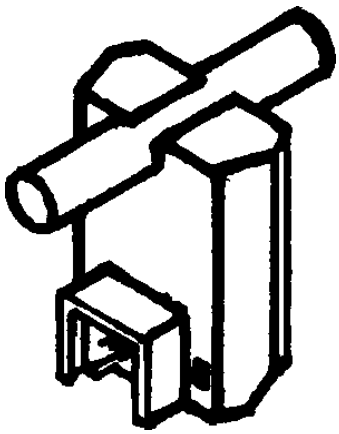
turbit-sensor

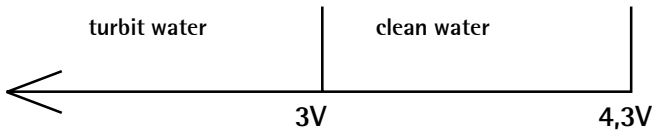
The function of the turbit-sensor is only activ by programmes "AUTO 65" and "AUTO BIO 50"

Function:

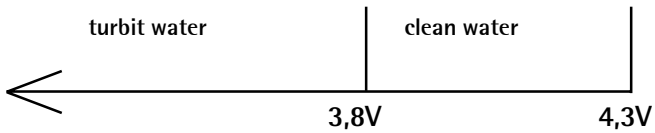
The input voltage of the turbit-sensor can be between 6 V and 11,4 V (rail connections output electronic 4 and 6).
The output voltage should always be 4,3 V (rail connections output electronic 1 and 6). That's voltage value for clean water.
Should the turbit-sensor be dirty after a long period of use, the input voltage corresponding to the turbit with automatically engage the electronical output according to the output voltage until it has reched 4,3 V. This calibration occurs in final rinse.
Should the maximum input voltage of 11,4 V be reached, then it couldn't reach the output-voltage of 4,3 V - 60 mV.
The error will be recorded "C5" in the memory. Should the output-voltage in pre-wash be under 3 V and in intermediate rinsing under 3,8 V, then we have turbit water in the tank.
In the service the turbit-sensor test program will not be calibrated for medium water, but with air (3,5 V).
That corresponds to medium water (4,3 V).



Output voltage pre-wash:



Output voltage intermediate rinsing:



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Flow water heater

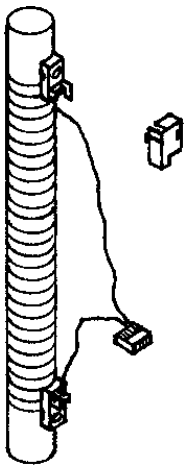
Heating power: 3125W

Heating steps:

Pre-wash (Intensiv) : distributor position on upper sprayarm, distributor out of power,
heating till 40 °C,
then distributor power on.

Washing: distributor position on upper sprayarm, distributor out of power,
heating till 50 °C,
distributor power on (1 min),
distributor position on upper sprayarm, distributor out of power,
heating till 60 °C (ECO-Program),
65 °C (Normal-Program),
70 °C (Intensiv-Program),
distributor power on,
washing predominant on lower sprayarm.

Final rinse: distributor position on upper sprayarm, distributor out of power,
heating till 50 °C,
dosage rinse aid,
distributor power on,
dosage rinse aid,
distributor position on upper sprayarm, distributor out of power,
heating till 70 °C,
distributor power on,
washing predominant on lower sprayarm.



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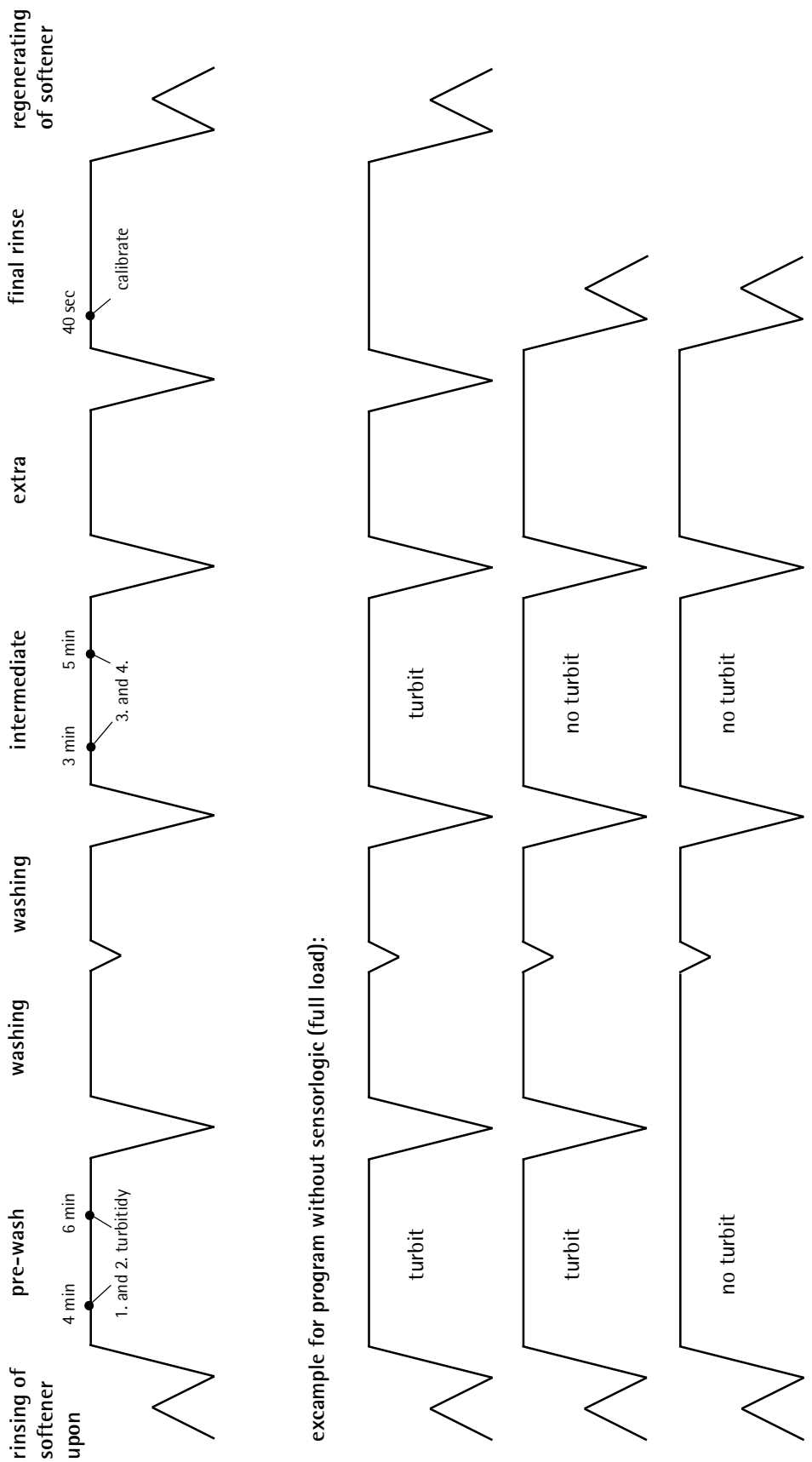
Autoprogram "AUTO 65° and AUTO BIO 50°"



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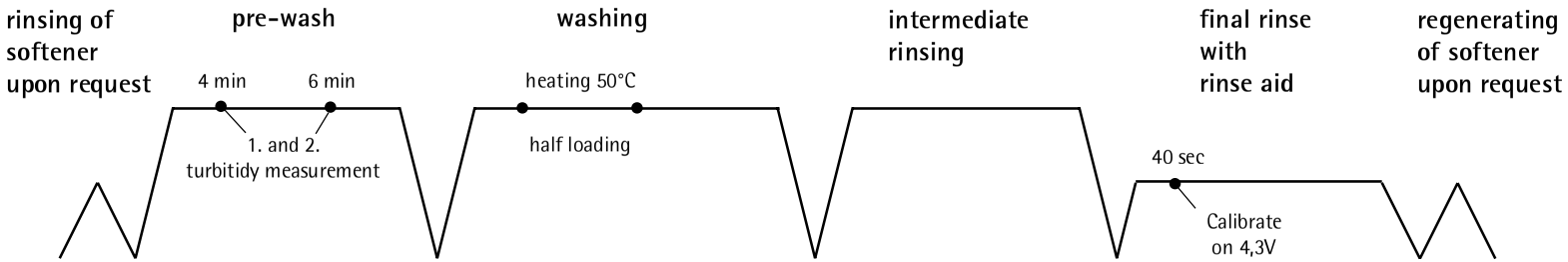
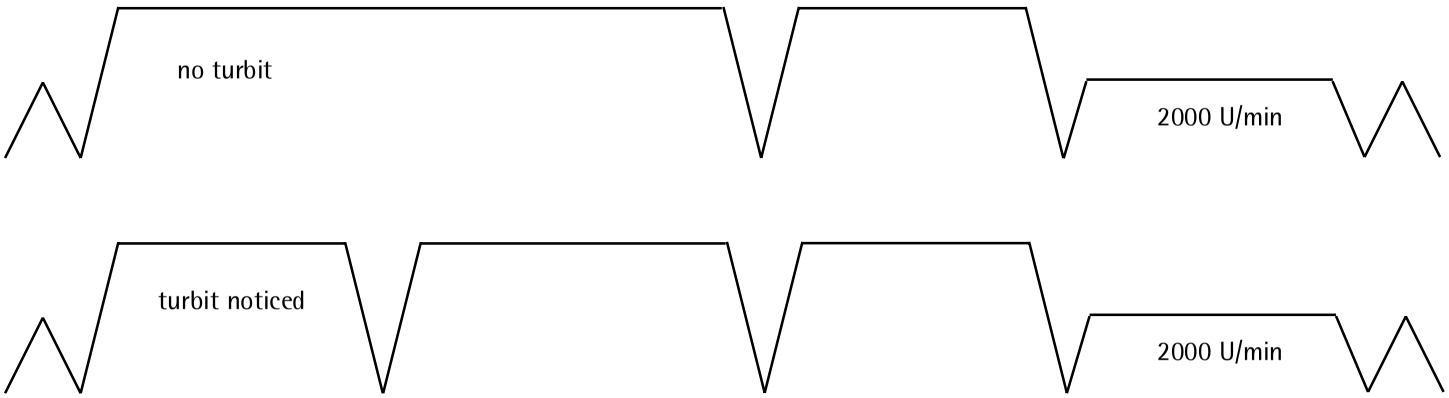
Autoprogram "AUTO 65° and AUTO BIO 50°"



Example for program with sensorlogic (half load):



LED-blockade only upper sprayarm

The LED-blockage is only over the upper sprayarm.
The LED-blockage for lower sprayarm is removed.

Function:

The inspection is running during the recycling pump in function.
The distributor-position on upper sprayarm.
The position contact for distributor b65 is open.
After change the upper sprayarm will be controlled within 40 sec.
During this 40 sec. should be existing minimal 4 impulse.
If that is not the case, an error will be recorded as "Cu" in the memory.
The LED sprayarm is on and the buzzer is going on.

LED-water inlet

The reed relay for water inlet is removed.

Function:

The inspect of LED-water inlet occurs about the pressure switch, i. e. the level isn't reached within 60 sec, then LED-water inlet is going on.
An Error will be recorded as "C1" in the memory, the LED "water" is going on.

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Technical Data

The fully electronic dishwasher has the following service functions:

1. Heater element programming
2. fault display
3. fault memory
4. LED-test
5. individual component control
6. service test programme

1. Heater element programming

- Press buttons 4 and 7 simultaneously and switch on with button 1
  (Refer to paragraph 3. 'Fault memory' for the pushbutton numbering)

- Press button 7 for choosing the heater power
  (after 6 seconds the display is switched off and the power value is stored)

LED Pre-rinsing	LED Washing	LED Drying	LED End	Multifunktion Display	Heater power	ET-No.
X	X	X	X	0 1	3125 W 1900 W + 1240 W	646 174 530 16 A
	X	X	X	0 2	2520 W	646 174 531 13 A
X		X	X	0 3	2035 W	646 174 532 10 A
		X	X	0 4	1240 W	

2. Fault display

If the electronic detects a fault during the washing programme, it is displayed by flashing LEDs. By pressing the programme button next to the LED, the programme continues and the fault display is cancelled.

The lower 5 LEDs of the programme progress indicator are used for the fault display.

On dishwashers with multi-function display the fault is also indicated on that display.

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LED Washing	8 LED Rinsing	4 LED Final Rinsing	2 LED Drying	1 LED End	Multifunction Display	Fault / Component	What is the behaviour of the dishwasher with the indicated fault?	How is the fault sensed by the electronic module?
X					CO	Electronic module	Program interruption	Data transfer between input module and power module faulty
				X	Rest program duration C1 in fault memory	no water inlet	Program interruption.	The level isn't reached within 60 sec.
			X		C2	Drain pump	Program interruption	The drain pump is triggered but the pressure switch doesn't reset after 115 sec.
			X	X	C3	Water in bottom tub Interruption of drain pump Module left: Triac doesn't reset	Program interruption until reset of overflow switch	Voltage measurement at Triac output
		X			C4	Regenerator valve interruption Module left: Triac doesn't reset	Program keeps on running	Voltage measurement at Triac output. Attention: With softeners supplied with two regenerator valves a winding interruption is not indicated
		X	X	X	C7 only in fault memory	Heater Heater relay Safety thermostat	Program keeps on running without heater	Temperature rising rate < 0,6 K/min during heating steps
	X				C8 only in fault memory	NTC Temperature sensor Interruption / short circuit	Program keeps on running without heater	Voltage measurement at NTC temperature sensor
	X			X	C9 only in fault memory	Tacho generator faulty	Program keeps on running; Recycling pump on nominal speed	Electronic module does not detect tacho information
	X		X		CA	Short circuit in Triac for recycling pump on left module	Program is skipped up to end Draining within 300 sec.	Module detects tacho information while Triac is not triggered
	X		X	X	Cb only in fault memory	Rotary switch faulty Module left: Triac doesn't switch off	Program keeps on running Program keeps on running without heating steps	The rotary switch contact is closed when the water enters the upper spray arm. If the contact doesn't switch, the module detects this fault type. Alltough the distriputer isn't controll high, a changing signal is recognized on contact b65 (short circuit).
	X	X			Cc	Fan "Drying" interrupted Module left: Triac doesn't switch off	Program keeps on running	Voltage measurement at Triac output
	X	X		X	Cd	Wax drive for air flap (Drying) interrupted Module left: Triac doesn't switch off	Program is skipped up to end; Draining within 300 sec.	Voltage measurement at Triac output
	X	X	X		CE	Micro processor "crashed"	Program is skipped up to end; Switch appliance off and restart program	Watchdog Microcomputer Reset; Microcomputer is "crashed" and works no more
n	o	n			Cu	upper sprayarm blocked	LED sprayarm on, buzzer on	Hall-Sensor doesn't get 4 Impulse/ 40sec

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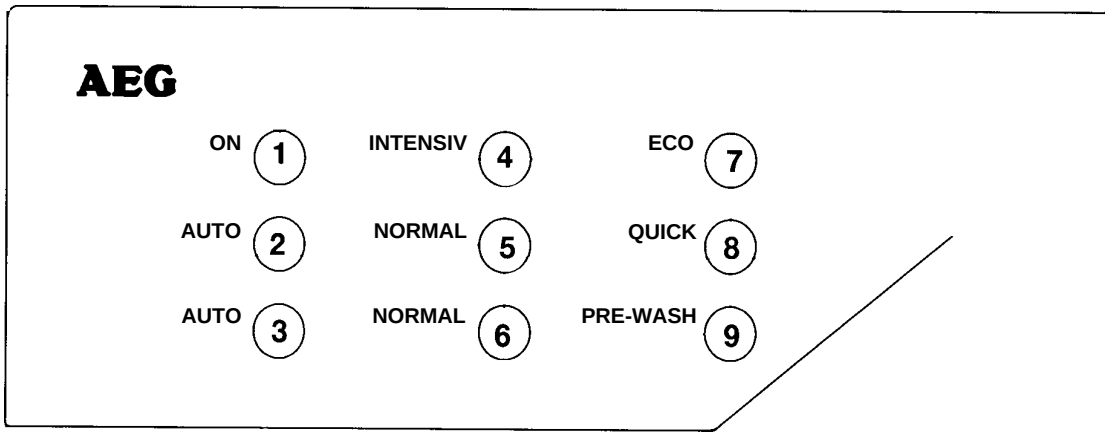
3. Fault memory

The latest three faults are stored and can be called up with the programme selection



- Whilst pressing buttons 4 and 7 simultaneously, switch on with button 1
- In display "d2"
- Press button 5 / the last occuring fault is displayed
- Press button 5 / the penultimately occurring fault is displayed etc

4. LED-Test / Cancelling of fault memory

- Whilst pressing buttons 4 and 7 simultaneously, switch on with button 1
- In display "d2"
- Press button 3 / all LEDs illuminate, the fault memory is deleted

5. Test of individual components

- Whilst pressing buttons 2 and 3 simultaneously and switch on with button 1
- In display "d1"

Button 1 On	Button 4 recycling pump	
Button 2 admission valve	Button 5 rotary slide	Button 8 Fan + flap
Button 3 regeneration valve	Button 6 drain pump	Button 9 detergent dispenser

20 sec after pushing the latest button the program is quit

6. Service test programme

- Whilst pressing buttons 4 and 7 simultaneously, switch on with button 1

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Technical Data

Program sequence indicator	Function	Option
Pre rinse	Rotary switch	until position upper spray arm (step independant)
	draining	until reset position pressure switch
	draining	30 seconds
	turbit-sensor	calibrated air UB=3,5V
	filling	until switch position pressure switch
	filling	3 seconds
	draining	until reset position pressure switch
	draining	30 seconds
	Rotary switch	until position upper spray arm
Washing	filling	until switch position pressure switch
	filling	19,5 Sekunden
	filling recycling	until switch position pressure sensor
	Detergent cover recycling	5 seconds
	heating recycling Rotary switch	65 °C
	draining	until reset position pressure switch
	draining	30 seconds
Final rinse	Regenerator valve Fan Fan flap	120 seconds
	Regenerator valve Fan Fan flap heating	30 seconds
	Regenerator valve Fan Fan flap	120 seconds
	Regenerator valve Fan Fan flap	30 seconds
	draining	30 seconds

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Technical Data

NTC-Temperaturfühler **Temperature sensor NTC-resistor**		
Temperatur/Widerstand	°C/Ω	20 °C / 6032 Ω
temperature/resistor		25 °C / 4829 Ω
(nur bei vollelektron. Geschirrspüler)		30 °C / 3891 Ω
(only for fully electronic dishwasher)		40 °C / 2573 Ω
		50 °C / 1741 Ω
		55 °C / 1444 Ω
		60 °C / 1204 Ω
		65 °C / 1009 Ω
		70 °C / 849 Ω

Elektronische Regenerierdosierung
Electronic regeneration dosage

Die elektronische Regenerierdosierung ist 10-stufig verstellbar.
The electronic regeneration dosage can be adjusted to 10 different settings.
o Die Taste "+" und "-" gleichzeitig drücken
o press the "+" and "-" buttons next to the display simultaneously
o Im Display erscheint die eingestellte Stufe H0 - H9
o the display shows the setting H0 - H9
o Mit den Tasten "+" oder "-" kann die Stufe verändert werden
o the setting can be ajusted with the "+" or "-" button

Härtebereich water hardness Stufe step	**Härtebereich water hardness D**	**F**	**Füllmenge capacity**	**Salz Salt**
H 0	- 4 °d	- 7 °f	regeneration	
H 1	- 12 °d	- 21 °f	> 165 l	
H 2	- 16 °d	- 29 °f	> 113 l	
H 3	- 20 °d	- 36 °f	> 81 l	
H 4	- 24 °d	- 43 °f	> 69 l	110 g für
H 5	- 28 °d	- 50 °f	> 57 l	eine Regenerierung
H 6	- 32 °d	- 57 °f	> 45 l	for one regeneration cycle
H 7	- 40 °d	- 71 °f	> 33 l	
H 8	- 50 °d	- 89 °f	> 21 l	
H 9	- 70 °d	- 125 °f	> 10 l	

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